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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/605,031	09/03/2003	Chi-Feng Wu	REAP0006USA	2030	
27765	7590 09/20/2005		EXAM	INER	
	NORTH AMERICA INTELLECTUAL PROPERTY CORPORATION			TU, CHRISTINE TRINH LE	
P.O. BOX 506 MERRIFIELD, VA 22116			ART UNIT	PAPER NUMBER	
	,		2133	· · · · · · · · · · · · · · · · · · ·	
		•	DATE MAIL ED. 00/20/2005		

DATE MAILED: 09/20/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

TO! 200 (D. 7.05)	ce Action Summar	y Pa	rt of Paper No./Mail Date 20050915			
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SE Paper No(s)/Mail Date	•	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:				
* See the attached detailed Office action for a	•	` ''	ed.			
	3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).					
2. Conject of the certified copies of the priority documents have been received in Application No						
1. Certified copies of the priority documents have been received.						
a)⊠ All b)□ Some * c)□ None of:						
12) Acknowledgment is made of a claim for for	eign priority und	ler 35 U.S.C. § 119(a))-(d) or (f).			
Priority under 35 U.S.C. § 119						
11) The oath or declaration is objected to by th						
Replacement drawing sheet(s) including the co			, ,			
Applicant may not request that any objection to						
9) The specification is objected to by the Example 10) The drawing(s) filed on 9/3/2003 is/are: a)		h) Mahiaatad ta bu t	ao Evaminas			
Application Papers	•					
		•				
8) Claim(s) are subject to restriction a	nd/or election re	equirement.				
7)⊠ Claim(s) <u>o and 9</u> is/are rejected. 7)⊠ Claim(s) <u>1 and 6</u> is/are objected to.						
5)∐ Claim(s) is/are allowed. 6)⊠ Claim(s) <u>8 and 9</u> is/are rejected.						
4a) Of the above claim(s) is/are with	ndrawn from coi	nsideration.				
4) Claim(s) 1-9 is/are pending in the application						
Disposition of Claims						
ciosed in accordance with the practice und	uer <i>⊏x paπe Qu</i>	ayıe, 1935 C.D. 11, 4	os U.G. 213.			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
,	a) This action is FINAL . 2b) This action is non-final.					
1) Responsive to communication(s) filed on (
Status						
WHICHEVER IS LONGER, FROM THE MAILIN - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communicatio - If NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by some Any reply received by the Office later than three months after the rearned patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THE FR 1.136(a). In no even on. eriod will apply and wi statute, cause the appl	IS COMMUNICATION ont, however, may a reply be tire of expire SIX (6) MONTHS from ication to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).			
Period for Reply A SHORTENED STATUTORY PERIOD FOR RI	EDIVIS SETT		(C) OP THIRTY (20) DAVC			
The MAILING DATE of this communication	n appears on the	cover sheet with the	correspondence address			
	Christine 1		2133			
Office Action Summary	10/605,03 Examiner		WU, CHI-FENG Art Unit			
	Application		Applicant(s)			
	1 (1) [7] [7] [7]		Annucanticl			

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Drawings

1. Figures 1-9 are objected to under 37 C.F.R. 1.84(o). All features represented by boxes in the figures must be labeled with a term which indicates what element the boxes represent. No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Objections

2. Claims 1-7 are objected to because of the following informalities:

Claim 1:

At lines 9-10, the term "the clock tree quasi-balance characteristic" lacks antecedent basis. It is also not clear what actually is a clock tree-quasi-balance characteristic?

Claim 6:

At line 13, the term "the clock tree quasi-balance characteristic" lacks antecedent basis. It is also not clear what actually is a clock tree-quasi-balance characteristic?

Claims 2-5 and 7:

These claims are objected because they depend on claims 1 and 6 and contain the same problem of indefiniteness.

Appropriate correction is required.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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4. Claims 8-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Peeters et al. (6,393,592 and Peeters hereinafter).

Claim 8:

Peeters teaches the invention substantially as claimed. Peeters teaches (figure 3) that a scan flop (200) includes a scan multiplexer (202), a clock multiplexer (204) and a D flip-flop (210). The Scan multiplexer (202) is selectively controlled to pass either data D or scan data SI based upon the selection by the scan enable terminal SE. The clock multiplexer (204) is receiving the functional clock at the clock terminal C, and the scan clock at the scan clock terminal SC. The functional clock is selected when the scan mode terminal SM is set to a logical "0" and the scan clock is selected with SM is set to a logical "1" (figure 3, column 4 lines 40-55).

Peeters does not explicitly teach that the scan multiplexer (202) outputs the function input signal during logic operations and outputs the scan input signal during scan tests.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to realize that Peeters' scan multiplexer (20) would output the data D when the scan flop is in the functional mode and would output the scan data SI when the scan flop is in the scan test mode. One having ordinary skill in the art would be motivated to realize so because Peeters' scan multiplexer (202) is operative in responsive to the scan enable terminal SE (figure 3, column 4 lines 46-48).

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Claim 9:

Peeters teaches that a scan chain is made up of a plurality of

interconnected scan flops (figure 1B, column 1 lines 36-45).

5. The prior art made of record and not relied upon is considered pertinent to

applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christine T. Tu whose telephone number is (571)272-3831. The examiner can normally be reached on Mon-Thur. 8:30am-

6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Albert DeCady can be reached on (571)272-3819. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Christine T. Tu Primary Examiner Art Unit 2133

September 16, 2005